

Title (en)

Method and apparatus for multi-channel recording and reproducing

Title (de)

Verfahren und Gerät zur Mehrkanal-Aufnahme und Wiedergabe

Title (fr)

Méthode et appareil d'enregistrement et de reproduction à canaux multiples

Publication

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Application

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Abstract (en)

[origin: EP0593214A2] In a magnetic recording and/or reproducing apparatus, when the reproduced audio data is processed in the reproduction system and the record system and is re-recorded in every cycle of N times the cycle during which the reproducing magnetic head scans a pair of recording tracks, the recording magnetic head is positioned behind the reproducing magnetic head for $8.5 + 4N$ track pitch so that the reproduced audio data can be re-recorded on the original recording track, therefore a write-after-read processing can be realized. Further, in the recording magnetic head positioned behind the reproducing magnetic head for the specific track pitch, the audio data is stored in a memory circuit for time base compression or expansion with a multichannel mode such as to record the reproduced audio data at the same part on the magnetic tape, so that a magnetic recording and/or reproducing apparatus which enables to perform the write-after-read processing can be obtained with simple construction if the number of channel is switched. Furthermore, the $2 < n >$ channel audio data is recorded by interleave processing in every cycle of N times the cycle forming a pair of recording tracks, so that even when the cycle during which a pair of recording track is formed is not kept to a multiple of integer of sampling cycle, a magnetic recording apparatus and a magnetic recording and/or reproducing apparatus which record and reproduce a plurality of channel audio data can be provided. <IMAGE>

IPC 1-7

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Citation (search report)

- [XD] EP 0411998 A2 19910206 - SONY CORP [JP]
- [A] EP 0507083 A2 19921007 - SAMSUNG ELECTRONICS CO LTD [KR]
- [A] PATENT ABSTRACTS OF JAPAN vol. 014, no. 064 (P - 1002) 6 February 1990 (1990-02-06) & US 5247396 A 19930921 - NAGAI YUTAKA [JP], et al
- [AP] PATENT ABSTRACTS OF JAPAN vol. 017, no. 175 (P - 1516) 5 April 1993 (1993-04-05)

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